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FOURTH GRADE.

GERTRUDE VAN HOESEN.

OUTLINE FOR APRIL, MAY, AND JUNE.

THE central thought of the work during the spring quarter will be the preparation and care of a garden, with all the problems that will grow out of it. These problems may be classified under three heads:

I. Preparation of garden: 1. Consideration of ideal conditions for (*a*) light (*b*) heat, (*c*) moisture, (*d*) soil.

In addition to the problems suggested by Mrs. Atwood in connection with these conditions in her outline for the fifth grade, in this number, the following investigations concerning moisture will be carried on: (*a*) Show that the plant actually takes up moisture (see *Nature Study for Grammar Grades*, by W. S. Jackman, p. 380). (*b*) Find the amount of water already in the soil at the disposal of seed to be planted. (*c*) Keep strict account of the rainfall from April 1, and get the data for March. (*d*) Find the rate of evaporation from garden. (*e*) Find rate of transpiration from small plants, using as a basis the data obtained from experiment under 1.

2. Under the actual preparations for the garden must be considered (1) preparation of land: (*a*) The saving of moisture; (*b*) preparation of the under soil; necessary tools; (*c*) preparation of surface soil; necessary tools.

II. Selection, sowing, and planting of seed. After consulting seed catalogues and books on gardening, the following must be determined: (1) The seeds which must be germinated indoors and then transplanted. (2) The seeds which are sown directly in the garden. (3) The distance between individual seeds or plants and the depth at which they must be planted. (4) Care of transplanted seedlings. (5) The marking of the plants and seeds. (6) The cost of the garden seeds.

III. The care of the garden after planting: (1) Weeding; note the comparative rate of growth of weeds and seeds planted; account for it. (2) Watering. (3) Tillage. (4) Insects and diseases. (5) Tools necessary to care properly for the garden. How many can the children make?

In addition to the study of germination, as outlined by Mrs. Atwood, other modes of propagation will be considered: (1) Bulbs and corms. (2) tubers, offsets, and rootstocks. (3) Layering. (4) Cuttings: (*a*) tuber cuttings; (*b*) root and rootstock cuttings; (*c*) stem cuttings; (*d*) leaf cuttings. (5) Grafting: (*a*) bud grafting; (*b*) scion grafting.

In every case experiments will be performed illustrating the mode of propagation.

The geography for the quarter is merely a larger view of the garden under consideration. It is outlined by Miss Baber in the *ELEMENTARY SCHOOL TEACHER*, Vol. II, No. 5, p. 351; topic, "Farming."

REFERENCES: *Great World's Farm*; *Selina Farm*; L. H. Bailey, *Garden Making, The Nursery Book. The Principles of Agriculture*; Jackman, *Nature Study for Grammar Grades*; King, *Soil*; Storer, *Agriculture*.

The history for the spring quarter is outlined by Miss Rice in the November issue of the present volume, p. 199 — "The Functions of the Government (or the Care that We Take of the People in our City)."

The details of the work here outlined for the spring quarter, together with the modes of expression employed in carrying out the work, will be given in the reviews to be subsequently published.

FIFTH GRADE.

REVIEW: FRENCH.

LORLEY ADA ASHLÉMAN.

LA SALLE.¹

(Atelier de Mlle. Prétun au huitième étage, Fine Arts Building, Chicago. Déjeuner d'artistes.)

Mlle. Ella Prétun. Voyons, voici les viandes froides — le jambon, les saucisses, le bœuf, le veau. Hélène, où est le pain? et je ne vois pas le beurre.

Mlle. Hélène Prétun. Voici le pain et le beurre.

Mlle. Ella. Je vous remercie.

Mlle. Hélène. Il n'y a pas de quoi.

Mlle. Ella. Voilà les petits-pains, les radis, les olives, les gâteaux, les fruits et les bonbons. (Se tournant vers ses amis.) Mes amis, asseyons nous à table!

(Tous les artistes se mettent à table.)

M. Vincent. Voyons, mademoiselle Hélène, qu'avez-vous à nous proposer?

Mlle. Hélène. J'ai une idée, une bonne idée.

Mlle. Bertrand. Parlez nous en.

M. Tarnusky. Il faut que notre voyage se fasse en Amérique.

M. Girard. Il ne faut pas que ce soit trop cher!

Mlle. Bertrand. Que proposez-vous, ma chère amie?

Mlle. Hélène. Voilà l'affaire. Monsieur Lémon, pouvez-vous me dire quelque chose au sujet de La Salle? Vous êtes notre encyclopédie. La Salle, où est-il né, où est-il allé lorsqu'il était jeune homme?

¹ Played for morning exercise by children of the fifth grade.